

# APPENDIX E

## WATER IMPROVEMENT PLAN CHECKLIST

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## **WATER IMPROVEMENT PLAN CHECKLIST**

The IWA Engineering department will follow the provided checklist below when performing water improvement plan checks. All information below must be included in water plans for IWA approval, unless it is not applicable.

For all inquiries associated with plan check process, please contact IWA Engineering department at [IWAEngineering@indio.org](mailto:IWAEngineering@indio.org).

## For Private Water Improvement Plans

### General to All Sheets

- \_\_\_ Drawings are 24" x 36"
- \_\_\_ North arrow must be shown
- \_\_\_ Standard Title Block including the following: revision block, signature approval block for Fire Marshal, City of Indio Approval, block showing firm name, address, phone number and contact person of firm responsible for work, IWA approval block, IWA logo and address block, block showing project title and sheet name, and block showing drawing number, sheet number, date, and project number
- \_\_\_ Bar scale to match scale sized
- \_\_\_ Call out all streets in project as public or private. On private streets, call out IWA easements

### Cover Sheet (G-1)

- \_\_\_ Standard Title Block
- \_\_\_ Underground Service Alert notation
- \_\_\_ "Declaration of Responsible Charge" statement with Engineer's Seal
- \_\_\_ Project identification heading (project title and address)
- \_\_\_ Vicinity Map
- \_\_\_ Sheet index reference accompanying drawings, including Title Sheet
- \_\_\_ Benchmark description with nearest Benchmark to project location described
- \_\_\_ Basis of Bearing description
- \_\_\_ List of quantities

### General Water Notes, Abbreviations & Legends Page (G-2)

- \_\_\_ Standard Title Block
- \_\_\_ Underground Service Alert notation
- \_\_\_ General Water Notes
- \_\_\_ Show abbreviations used on drawing listed in tabular form
- \_\_\_ Show symbol legend
- \_\_\_ Work to be done legend
- \_\_\_ Cross Referencing System

## Plan and Profile Sheets (W-#)

- \_\_\_\_\_ Standard Title Block
- \_\_\_\_\_ Underground Service Alert notation
- \_\_\_\_\_ Existing water, sewer, and non-potable water facilities in the vicinity of the proposed water line project shall be shown with size and material indicated
- \_\_\_\_\_ Connections to existing water lines shall be accurately identify the type and size of material
- \_\_\_\_\_ Potentially conflicting utility crossings shall be clearly delineated on both plan and profile views
- \_\_\_\_\_ Profile view(s) shall clearly show size, material type and slopes along the new water line(s) proposed
- \_\_\_\_\_ Construction Notes referencing information on plan and/or profile view that are definitive and accurate. Example shown in the “CAD Manual” is intended to be minimum standard notes. Additional notes shall be added to represent specific project conditions
- \_\_\_\_\_ References to IWA standard drawings should be definitive and accurate
- \_\_\_\_\_ Project boundary lot lines & lot numbers shown and identified on plan view(s)
- \_\_\_\_\_ At least two (2) separate (not on the same pipe) connection points to the existing IWA Water Utility Water Distribution system within the limits of the project must be tied into the California State Plane Coordinate system, Zone 6 - NAD 1983 and the coordinates shown on the plans
- \_\_\_\_\_ Street centerline stationing shall be shown at PTs, PCs, etc. Street centerline shall show record and/or measured bearings, distances, and curve data. Curve data may be shown in a separate table, if convenient. Existing street documentation shall be clearly marked
- \_\_\_\_\_ Distances shown shall be referenced from the centerline of the pipe.
- \_\_\_\_\_ Street names, easements, and rights of way (existing and proposed) shall be appropriately shown and labeled on plan view(s).
- \_\_\_\_\_ Water line stationing on plan/profile views shall be referenced to street centerline stationing with offset distances clearly marked
- \_\_\_\_\_ Water mains shall have a minimum cover of 42 inches. Water services shall have a minimum cover of 36 inches

- \_\_\_\_\_ Separation requirements between utilities shall meet minimum requirements specified by the IWA standard plans, drawings, specifications and governing state and federal regulations
- \_\_\_\_\_ Water meter locations and service connections shall be accurately and definitively described on the plan/profile sheet(s). Water services shall be sized correctly. (Minimum of 1 inch for residential services and minimum of 2 inches for commercial services)
- \_\_\_\_\_ Proposed (new) fire hydrants shall be shown and meet Fire Department requirements
- \_\_\_\_\_ All proposed appurtenances, including but not limited to the following list shall be clearly and definitively shown on the plan/profile sheet(s) with the appropriate size, location, and numbers:
  - Gate Valves
  - Butterfly Valves
  - Air-Vacuum Assemblies
  - Blow-Off Assemblies
  - Backflow Devices, if applicable
  - Restrained Joints
  - DCDA backflow devices for fire protection services

### **Detail Sheets (W-#)**

- \_\_\_\_\_ Standard Title Block
- \_\_\_\_\_ Underground Service Alert notation
- \_\_\_\_\_ All details shall be accurately scaled where feasible and appropriately cross-referenced to other drawings on the plan set
- \_\_\_\_\_ IWA Standard drawings, (latest edition located on IWA website) shall be included on detail sheet(s) or referenced where appropriate

## **For IWA Capital Water Improvement Plans**

### **General to All Sheets**

- \_\_\_ Drawings are 24" x 36"
- \_\_\_ North arrow must be shown
- \_\_\_ Standard Title Block including the following: revision block, signature approval block for Fire Marshal, City of Indio Approval, block showing firm name, address, phone number and contact person of firm responsible for work, IWA approval block, IWA logo and address block, block showing project title and sheet name, and block showing drawing number, sheet number, date, and project number
- \_\_\_ Bar scale to match scale sized
- \_\_\_ Call out all streets in project as public or private. On private streets, call out IWA easements

### **Cover Sheet (G-1)**

- \_\_\_ Standard Title Block
- \_\_\_ Underground Service Alert notation
- \_\_\_ "Declaration of Responsible Charge" statement with Engineer's Seal
- \_\_\_ Project identification heading (project title and address)
- \_\_\_ Vicinity Map
- \_\_\_ Sheet index reference accompanying drawings, including Title Sheet
- \_\_\_ Benchmark description with nearest Benchmark to project location described
- \_\_\_ Basis of Bearing description
- \_\_\_ List of quantities
- \_\_\_ IWA Recent Board Of Directors (IWA will provide)
- \_\_\_ IWA Recent Executive Director and Management (IWA will provide)

### **General Water Notes, Abbreviations & Legends Page (G-2)**

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- \_\_\_ Underground Service Alert notation
- \_\_\_ General Water Notes
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- \_\_\_ Show symbol legend

- \_\_\_\_\_ Work to be done legend
- \_\_\_\_\_ Cross Referencing System

### **Plan and Profile Sheets (W-#)**

- \_\_\_\_\_ Standard Title Block
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- \_\_\_\_\_ Potentially conflicting utility crossings shall be clearly delineated on both plan and profile views
- \_\_\_\_\_ Profile view(s) shall clearly show size, material type and slopes along the new water line(s) proposed
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